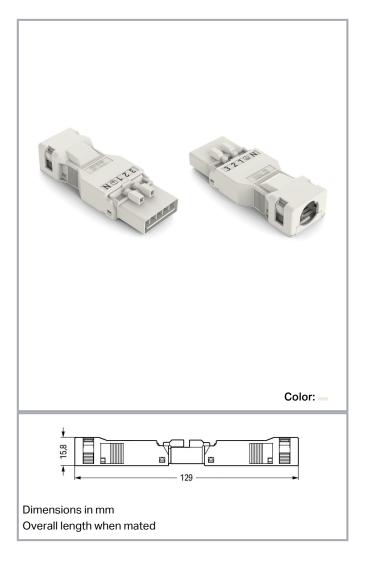
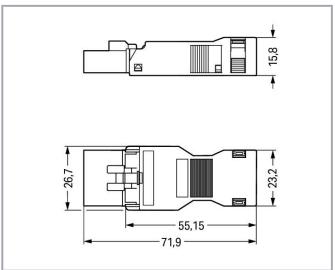
Plug; with strain relief housing; 5-pole; 1,50 mm²; white

www.wago.com/890-135







Item description

Male connector/plug WINSTA® MINI with protection against mismating

The WINSTA® MINI male connector/plug with protection type IP40 provides the foundation for assembly of fine-stranded and solid conductors. WAGO pluggable installation connectors can be used when requirements repeat or are planned on a defined pattern, for example for installing grid

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lighting or flush-mount lighting. For greater protection in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismating. The pluggable installation connector offers protection against contact with wires or tools if they are smaller than 1 mm in accordance with protection type IP40. The WINSTA® MINI pluggable installation connector with A coding in black or white is usually used for general mains applications in power distribution. Particularly where space is tight, our smallest pluggable connection system, WINSTA® MINI, conveniently displays its strengths. It is very compact, and, thanks to Push-in CAGE CLAMP® spring pressure connection technology, it additionally saves time, since the installation is low-maintenance and requires no screw connections. The strip length is 45 mm.

WINSTA® MINI solutions for your electrical installation - protected against mismating and maintenance-free

WINSTA® is the pluggable connection system that is perfectly tailored to the strict requirements of electrical installation. It ensures fast, secure and, above all, error-free installation of components and cables. Now you can also reduce installation costs without compromising safety and quality:

The WINSTA® MINI pluggable installation connector with marking eliminates the need for servicing and prevents unnecessary downtime.

- effective protection against mismating
- easy tool-free operation, a wide range of coding options
- suitable for any application
- custom-engineered solutions
- fast, secure installation

Data

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	400 V
Rated impulse voltage (III/3)	6 kV
Rated current	13 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

Ratings per UL 1977

Note for the US market	Some versions may also be used for current interruption in accordance with the UL certificate in select applications with currents below 5 A and voltages up to 600 V. For further information, please contact your local sales office.
Rated voltage (UL 1977)	600 V
Rated current UL 1977	12 A

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General

Note on contact resistance	approx. 1 m Ω of contact resistance
	approx. 0.25 m Ω contact transition plug/socket

Connection data

Connection points	5
Total number of potentials	5

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool
	Push-in
Nominal cross-section	1.5 mm ² / 16 AWG
Solid conductor	0.25 1.5 mm² / 22 16 AWG
Solid conductor; push-in termination	0.75 1.5 mm² / 20 16 AWG
Stranded conductor	0.25 1 mm² / 22 18 AWG
Fine-stranded conductor	0.25 1.5 mm² / 22 16 AWG
Fine-stranded conductor; with insulated ferrule	0.25 0.75 mm² / 22 20 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 0.75 mm² / 22 20 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.75 mm ² / 20 AWG
Strip length	9 mm / 0.35 inches
Pole number	5
Conductor entry direction to mating direction	0°
Strip length (outer insulation)	45 mm

Physical data

Pin spacing	4.4 mm / 0.173 inches
Width	26.7 mm / 1.051 inches
Height	15.8 mm / 0.622 inches
Depth	71.9 mm / 2.831 inches

Mechanical Data

Application	General mains applications
Coding	A
Variable coding	No
Marking	3 2 1 ↓ N

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Potential marking	3 2 1 ↓ N
Mating force of a plug-in connection	approx. 20 70 N (depending on pole number)
Retention force of a plug-in connection	Locked: > 80 N
Unmating force of a plug-in connection	Unlocked: approx. 20 70 N (depending on pole number)
Number of mating cycles	200, without resistive load
Protection type	IP40

Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for conductor
Mismating protection	Yes
Note on mismating protection	All WINSTA® components are 100% protected against mismating when: a.) plugging different numbers of poles b.) plugging while rotated 180 c.) plugging while laterally staggered d.) plugging one pole
Locking lever	Can be retrofitted
Locking of plug-in connection	locking lever
Note on locking system	All connectors for mounted installations (snap-in versions for lighting fixtures or devices, all types of PCB and distribution connectors) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for flying leads (plug/socket).
Strain relief	strain relief housing

Material Data

Note (material data)

Information on material specifications can be found here

Color	white
Cover color	gray
Material group	l
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.352 MJ

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Environmental requirements

Processing temperature	-5 +40 °C
Continuous operating temperature	-35 +85 ℃
Note on continuous operating temperature	Insulating parts for temperatures ≤ 105 °C

Commercial data

Product Group	20 (Winsta)
eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 8.0	EC002560
ETIM 7.0	EC002560
PU (SPU)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4045454233037
Customs tariff number	85366990990

Environmental Product Compliance

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	IEC 61535	NL-85020
KEMA	CCA DEKRA Certification B.V.	EN 61535	71- 123231
	cURus	UL 1977	E45171



Underwriters Laboratories Inc.

Declarations of conformity and manufacturer's declarations

Certificate

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Certificate

Logo	Approval	Additional Approval Text	name
CE	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Logo	Approval	Additional Approval Text	name
ABS.	ABS American Bureau of Shipping	Steel Vessel Rules	19- HG1869855- PDA
DNV DNVCOMAF	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
DE LOS TRE AMERICAN	LR Lloyds Register	EN 61535	08/20047 (E2)

Counterpart

	Item no.890-125 Socket; with strain relief housing; 5-pole; Cod. A; 1,50 mm²; white	www.wago.com/890-125
	Item no.890-225 Socket; 5-pole; Cod. A; 1,50 mm²; white	www.wago.com/890-225
P	Item no.890-671 T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white	www.wago.com/890-671
	Item no.890-725 Snap-in socket; 5-pole; Cod. A; 1,50 mm²; white	www.wago.com/890-725

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Item no.890-725/006-000

Snap-in socket; without locking lever; 5-pole; Cod. A; 1,50 mm²; white

www.wago.com/890-725/006-000

Item no.890-825

Socket for PCBs; straight; 5-pole; Cod. A; white

www.wago.com/890-825



Item no.890-825/011-000

Socket for PCBs; angled; 5-pole; Cod. A; white

www.wago.com/890-825/011-

000



Item no.890-979

h-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white

www.wago.com/890-979



Item no 890-980

h-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for www.wago.com/890-980 flying leads; white

Item no.890-672

T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white

www.wago.com/890-672

Item no.891-8995/106-102

pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; white

www.wago.com/891-8995

/106-102

Item no.891-8995/006-102

pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m;

www.wago.com/891-8995

/006-102

Required accessories

Locking levers

Locking system



Item no.: 890-111

Locking lever; for flying leads; for tool operation; black

www.wago.com/890-111



Item no.: 890-101

Locking lever; for manual operation; black

www.wago.com/890-101



Item no.: 890-121

Locking lever; for manual operation; white

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Item no.: 890-131

Locking lever; for flying leads; for tool operation; white

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Optional accessories

Cover

Cover



Item no.: 897-2003

Protective cap; Type2; for sockets and plugs; PVC; red

www.wago.com/897-2003

Mounting

Mounting accessories



Item no.: 890-310

Mounting carrier; 2- to 5-pole; for flying leads; black

www.wago.com/890-310

Item no.: 890-311

Mounting carrier; 2- to 5-pole; for flying leads; white

www.wago.com/890-311

Tool

Operating tool



Item no.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719



Item no.: 890-385

Operating tool; 5-way; green

www.wago.com/890-385

Shield termination

Shield termination



Item no.: 890-527

Shield connecting plate; 5-pole; for plugs

www.wago.com/890-527

Downloads

Documentation

Bid Text

890-135 X81 - Datei 2019 Feb 19

xml 3.1 kB Download

2015 Jun 8

doc

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24.1 kB

CAD/CAE-Data

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CAE data

WSCAD Universe 890-135	URL	Download
ZUKEN Portal 890-135	URL	Download
CAD data		
2D/3D Models 890-135	URL	Download

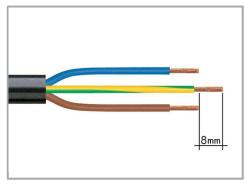
Environmental Product Compliance

Compliance Search

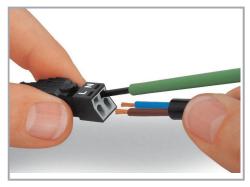
Environmental Product Compliance 890-135 Plug; with strain relief housing; 5-pole; 1,50 mm²; white URL Download

Installation Notes

Conductor termination



- 1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
- 2. Strip length = 9 mm
- 3. Extended ground conductor = 8 mm



To terminate fine-stranded conductors, open the clamping unit via screwdriver – 2.5 mm blade width – and insert a stripped conductor until it hits the backstop.

Terminate solid conductors by simply pushing them in.

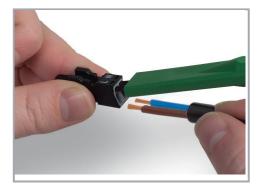
 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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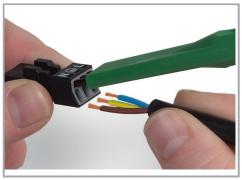
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To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop.

Terminate solid conductors by simply pushing them in.



To terminate fine-stranded conductors, open clamping units via operating tool (890-383) and insert stripped conductors until they hit backstop.

Terminate solid conductors by simply pushing them in.

Installation



Latch the wired connector into the base of the strain relief housing.



Push down strain relief clamp by hand.

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Push down strain relief clamp with 2.5 mm screwdriver alternately on both sides.

Latch the top of the strain relief housing.



The printed marking of the connector is clearly visible in the openings of the strain relief housing.

Shield termination



Connector with shield termination

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Apply the shield to the sheathed cable.

Strip length, outer insulation = 30 mm

Shield length = 8 mm

Push the shield connecting plate into the connector until fully inserted.



First insert the wired connector into strain relief housing, then snap clamp and cover.

Product family

WINSTA® MINI
Show all products from the family

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